

## Special Issue

# DNA Damage Response for Targeted Cancer Therapy: Molecular Basis and Mechanisms Pathways

### Message from the Guest Editor

DNA damage response (DDR) is a pivotal system for maintaining DNA integrity and is a safeguard for the correct transfer of genetic information between generations. The components of the system leading to the recognition, signaling, and repair of DNA damage have been largely understood over the last few decades. Currently, the focus is primarily on using this knowledge in clinical practice to develop therapeutic strategies. The inter-individual variability of the effectiveness of the DDR system contributes to the development of cancers, modulates individual response to cancer therapies, and is a target in modern personalized therapeutic strategies. This Special Issue aims to introduce to the readers the state of the art of the DDR system in cancer treatment and to address possible directions for developing new therapeutic strategies. We are looking for original articles as well as reviews on therapeutic strategies targeting the DDR system. Papers that report research on predictive factors and modern gene editing methods focused on modulating the efficacy of DDR system are also welcome. *I look forward to receiving your contributions.*

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### Guest Editor

Dr. Renata Krupa

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### Deadline for manuscript submissions

closed (20 March 2026)



## Biomolecules

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### Message from the Editorial Board

*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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